

CLAIMS

The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:

1. A head restraint support for a foldable head restraint, the head restraint support
5 capable of holding a bun, comprising a latch integral with the head restraint support and the latch capable of locking the head restraint support in a design position.
2. The head restraint support of claim 1 further comprising a rotational hole for receiving a rotational shaft, the head restraint support pivoting about the rotational shaft.
3. The head restraint support of claim 2 further comprised of a metal substrate for
10 holding the bun.
4. The head restraint support of claim 3 where the metal substrate is enclosed at least partially by an over-molded geometry.
5. The head restraint support of claim 4 where the over-molded geometry is generally cylindrical.
- 15 6. The head restraint support of claim 5 further comprising a stabilizer hole for receiving a stabilizer rod.
7. The head restraint support of claim 6 where the primary latch has a first latch surface for engagement with a first stop.
8. The head restraint support of claim 7 where the primary latch has a second latch
20 surface for engagement with a first cam surface.
9. The head restraint support of claim 8 where the metal substrate 17 and an integral latch are made from one piece.

10. The head restraint support of claim 9 where the metal substrate is manufactured by a close tolerance metal fabrication process.

11. A foldable head restraint comprising:

a first head restraint support for receiving a bun;

5 a bracket;

and a cam that engages with the first head restraint support for holding the first head restraint support in a design position.

12. The foldable head restraint of claim 11 further comprising a primary latch, the primary latch integral to the first head restraint support and engageable by the cam.

10 13. The foldable head restraint of claim 12 further comprising a second head restraint support.

14. The foldable head restraint of claim 13 further comprising a rotational bar extending through the first head restraint support and the second head restraint support, and the bracket such that the first head restraint support and the second head restraint support are
15 rotatable about the rotational bar.

15. The foldable head restraint of claim 14 further comprising a stabilizer bar, the stabilizer bar attached to the first head restraint support and the second head restraint support.

16. The foldable head restraint of claim 15 further comprising a first stop pin, the first stop pin being attached to the bracket.

20 17. The foldable head restraint of claim 16 where the latch has a first latch surface, and the latch surface engageable with the stop pin to prohibit motion of the head restraint support in a first direction.

18. The foldable head restraint of claim 17 where the primary latch has a second latch surface that engages with the first cam surface to prohibit rotation of the head restraint support in a second direction.

19. The foldable head restraint of claim 18 where the cam is rotatable.

5 20. The foldable head restraint of claim 19 where the cam has a torsion spring, and the torsion spring biases the cam in the first direction.

21. The foldable head restraint of claim 20 where the cam has a cable pin, the cable pin receives an end of the cable wire.

10 22. The foldable head restraint of claim 21 where a first end of the torsion spring is attached to the cable pin.

23. The foldable head restraint of claim 22 where the torsion spring has a second end, and the second end is attached to the bracket.

24. The foldable head restraint of claim 23 where the cam is installed on a cam pivot pin and the torsion spring is mounted on the cam pivot pin.

15 25. The foldable head restraint of claim 24 where the cable pin is located at the first end of the cam and the cam pivot pin is located at the second end of the cam.

26. The foldable head restraint of claim 25 further comprising a second stop, the second stop attached to the bracket.

20 27. The foldable head restraint of claim 26 where a second head restraint support has a second latch, and the second latch engages with the second stop to prohibit motion in a first direction.

28. The foldable head restraint of claim 27 where the bracket has a first side and a second side, and the first stop is located on the first side and the second stop is located on the second side.

5 29. The foldable head restraint of claim 28 where the first head restraint support has a first metal substrate and the second head restraint support has a second metal substrate, and the first metal substrate is contained within a first over-molded geometry and the second metal substrate is contained within a second over-molded geometry.

30. The foldable head restraint of claim 29 where the first over-molded geometry and the second over-molded geometry are generally cylindrical.

10 31. The foldable head restraint of claim 30 where the first metal substrate and the second metal substrate are manufactured by a close tolerance metal fabrication process.

32. The foldable head restraint of claim 31 where the primary metal substrate and the second metal substrate are generally fine blanked components.

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